

ABSTRACT

A system and a method for recovery of carbon dioxide in exhaust gas, wherein a liquid absorbent (116) jetted from a liquid absorbent jetting part (101) comes into gas-liquid contact with exhaust gas (114) flowing through a packing (102) from the lower side to the upper side to absorb the carbon dioxide contained in the exhaust gas (114). The flow of the liquid absorbent (116) in a deposition vessel (11) conditioned to a specified pH value is stopped to deposit insoluble compounds as the reaction product of the liquid absorbent (116) against the carbon dioxide, and the carbon dioxide is collected as the insoluble compounds. Thus, the carbon dioxide can be removed from the liquid absorbent which absorbed the carbon dioxide without using steam from a power generating boiler.